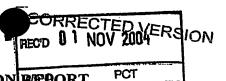
TATENT COOPERATION TREATY DCT



INTERNATIONAL PRELIMINARY EXAMINATION WEPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference 503958/142	FOR FURTHER ACTION				
International Application No.	International Filing Date (day/month/year)	te Priority Date (day/month/year)			
PCT/NZ2003/000111	4 June 2003	4 June 2002			
International Patent Classification (IPC) or	national classification an	nd IPC			
Int. Cl. ⁷ C07K19/00, C07K14/00, C07K 014/315, C07K 016/12; A61K 035/74, A61K39/00, A61K 039/09, A61K39/39; C12N 001/20, C12N15/31; C07H 019/00; C12Q 001/68					
Applicant .					
AUCKLAND UNISERVICES LIMITED et al					
1. This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.					
2. This REPORT consists of a total of 4	sheets, including this c	over sheet.			
This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule					
70.16 and Section 607 of the Adr					
These annexes consist of a total of	of sheet(s).				
3. This report contains indications relating	to the following items:				
I X Basis of the report					
II Priority					
III Non-establishment of op	III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability				
IV Lack of unity of inventio	n				
V X Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement					
VI Certain documents cited	<u> </u>				
VII Certain defects in the into	rtain defects in the international application				
<u></u>					
VIII A Cortain observations on the international application					
Date of submission of the demand	. П	Date of completion of the report			
7 November 2003	2	20 September 2004			
Name and mailing address of the IPEA/AU	I A	Authorized Officer .			
AUSTRALIAN PATENT OFFICE PO BOX 200, WODEN ACT 2606, AUSTRALIA					
-mail address: pct@ipaustralia.gov.au		D.A. LALLY			
Facsimile No. (02) 6285 3929		Telephone No. (02) 6283 2533			

I. Basis of the report	_
1. With regard to the elements of the international application:*	1
X the international application as originally filed.	
the description, pages, as originally filed,	
pages, filed with the demand,	
pages, received on with the letter of	
the claims, pages, as originally filed,	- 1
pages, as amended (together with any statement) under Article 19,	
pages, filed with the demand,	- 1
pages, received on with the letter of	-
the drawings, pages, as originally filed,	-
pages, filed with the demand,	-
pages, received on with the letter of	ł
the sequence listing part of the description:	- [
pages, as originally filed	1
pages, filed with the demand	l
pages, received on with the letter of	
2. With regard to the language, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item. These elements were available or furnished to this Authority in the following language which is:	-
the language of a translation furnished for the purposes of international search (under Rule 23.1(b)).	ı
the language of publication of the international application (under Rule 48.3(b)).	
the language of the translation furnished for the purposes of international preliminary examination (under Rules 55.2 and/or 55.3).	
3. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:	
contained in the international application in written form.	
filed together with the international application in computer readable form.	
furnished subsequently to this Authority in written form.	
furnished subsequently to this Authority in computer readable form.	
The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.	
The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished	
4. The amendments have resulted in the cancellation of:	
the description, pages	
the claims, Nos.	
the drawings, sheets/fig.	to
5. This report has been established as if (some of) the amendments had not been made, since they have been considered go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**	
* Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are rejerred to the report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17).	uis
** Any replacement sheet containing such amendments must be referred to under item I and annexed to this report	

INTERNATIONAL PREDIMINARY EXAMINATION REPORT

International application No.

PCT/NZ2003/000111

V.	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations
	and explanations supporting such statement

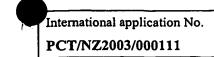
1. Statement		
Novelty (N)	Claims 1 to 24	YES
	Claims nil	NO
Inventive step (IS)	Claims 1 to 24	YES
	Claims nil	NO
Industrial applicability (IA)	Claims 1 to 24	YES
	Claims nil	NO

2. Citations and explanations (Rule 70.7)

- <u>Document 1</u>: Fraser, J.D. *et al*: Journal of Immunology, (1 September 2002) 169 (5) 2561-9. "The bacterial superantigen streptococcal mitogenic exotoxin Z is the major immunoactive agent of Streptococcus pyogenes".
- <u>Document 2</u>: Proft, T. et al: Journal of Experimental Medicine, (15 May 2000) 191 (10) 1765-76. "The Streptococcal Superantigen SMEZ Exhibits Wide Allelic Variation, Mosaic Structure, and Significant Antigenic Variation".
- <u>Document 3</u>: Arcus, V.L. et al: Journal of Molecular Biology, (26 May 2000) 299 (1) 157-68.
 "Conservation and Variation in Superantigen Structure and Activity Highlighted by the Three dimensional Structures of Two New Superantigens from Streptococcus pyogenes".
- <u>Document 4</u>: Proft, T. et al: Journal of Experimental Medicine, (4 January 1999) 189 (1) 89-101. "Identification and Characterisation of Novel Superantigens from Streptococcus pyogenes".
- <u>Document 5</u>: WO 02/45739 A1 (Auckland Uniservices Limited), 13 June 2002.

None of Documents 1 to 5 either read alone or in combination with any other document teaches nor suggests any aspect of the invention claimed, rendering all claims both novel and inventive.

INTERNATIONAL PRELIMINARY EXAMINATION REPORT



/III. Certain observations on the international application					
The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:					
The term "does not include a fully functional T-cell receptor binding site" is not properly supported by the description.					